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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,593	09/26/2003	James R. Vogt	42P8647C	8662

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EXAMINER

THAI, TUAN V

ART UNIT	PAPER NUMBER
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2186

DATE MAILED: 06/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/672,593

Applicant(s)

VOGT ET AL.

Examiner

Tuan V. Thai

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25-60 is/are pending in the application.
- 4a) Of the above claim(s) 37-39, 53 and 56 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 25-36, 40-52, 54, 55 and 57-60 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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Part III DETAILED ACTION

Response to Amendment

1. This office action is in response to Applicant's communication filed March 18, 2005. This amendment has been entered and carefully considered. Claims 25-36, 40-52, 54-55 and 57-60 are presented for examination. Claims 37-39, 53 and 56 have been canceled.

2. Applicant's arguments with respect to claims 25-36, 40-52, 54-55 and 57-60 have been considered but are not deemed to be persuasive.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. ' 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 25-30, 32-36, 40-43 and 45-48 are rejected under 35 U.S.C. 102(b) as being anticipated by Junya (USPN: 5,469,564);

As per claim 25, Junya teaches the invention as claimed including a memory device 100 comprising a main memory array is taught as flash memory array 10 (e.g. see figure 1; column 2,

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lines 21 et seq.); an internal processor to execute programming code is taught as the R/W control circuit 11 for executing programming code from host computer 200 (e.g. see figure 1); a hidden storage area connected to the main flash array wherein the programming code prevents access to the hidden storage area without a valid password is taught by Junya as the read/write control circuit 11 functions to read passwords from the data file area 16 of the memory 10 in response to address signals generated by the address signal generator 13 based upon the password addresses read from the password table area 15; the comparing circuit 12 functions to compare the passwords read out by the read/write control circuit 11 with the password supplied by the host computer 200; wherein if the comparing circuit 12 detects a match, the data storage device 100 provides an access permission signal to the host computer 200 for access to memory 10. (e.g. see abstract, column 2, lines 34 et seq.; lines 65 bridging column 3, line 4); a bad password counter coupled to the processor for maintaining a record of one or more invalid password is taught by Junya as UP/DOWN counter which connected to the output of the comparator 41 for keeping track of number of the passwords being matched/NOT_matched (e.g. see column 3, lines 48-62);

As per claims 26 and 27, Junya discloses main memory array is a flash EEPROM; noting that Junya further discloses the type

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of memory employed is NOT limiting to the present invention (e.g. see column 2, lines 24-26);

As per claim 28; the further limitation of where the hidden storage area of memory array 100 comprises one or more hidden banks is taught by Junya to the extent that it is being claimed, for example, as noted above, the type of memory is a system depended feature, wherein as being illustrated by Junya; any type of memory could be implemented including DRAM, RAM, FLASH, which is known to comprise at least one segment/bank/portion as being claimed (e.g. see column 2, lines 24-26);

As per claim 29; Junya discloses memory storage unit 10 having a password area 15 and a data file area 16 storing active (valid reference) passwords (e.g. see Junya's figure 1, column 2, lines 23-24);

As per claim 30, wherein the valid password allows accesses to only one of the users spaces (e.g. see Junya's column 2, lines 34 et seq.);

As per claim 32, Junya discloses the blocks/banks selector for selecting memory banks/blocks as being equivalent to the read/write control circuit 11 for decoding/selecting password data/addresses (e.g. see column 3, lines 24 et seq.);

As per claim 33, wherein the hidden storage area further comprises an output bus gate to prevent access to the hidden storage memory banks (e.g. see Junya's column 2, line 48 bridging

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column 3, line 4);

As per claims 34 and 35; wherein the hidden storage area comprises an address decoder for enabling the access (opening the bus gate) to the memory area when valid password and memory address are provided is taught by Junya as the comparing circuit 12 and read/write control circuit 11; and the valid memory address is provided by a host (e.g. see Junya's figure 1, column 2, lines 37 et seq.);

As per claim 36, the further limitation of the valid memory address is provided by the host is taught by Junya since starting at column 4, lines 30 et seq. discloses that starting (valid) memory address could be stored in a directory contained in the host computer 200;

As per claim 40, Junya discloses a method comprising storing one or more valid passwords in a hidden memory area is taught as active passwords are being stored in the data file area 16 (e.g. see column 3, lines 7-8); receiving a password at an internal processor connected to the hidden memory area is taught as password HC received from the host computer 200 connected to the data file area 16; and executing programming code to verify the password against a valid reference password stored within the hidden memory area is taught as the comparing circuit including the digital comparator 41 for comparing passwords HC receiving from the internal host 200 with a password MR read from the data

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file area 16 of memory 10 (e.g. see column 3, lines 48-52); maintaining a record of one or more invalid password by a bad password counter coupled to the processor for is taught by Junya as UP/DOWN counter which connected to the output of the comparator 41 for keeping track of number of the passwords being matched/NOT_matched (e.g. see column 3, lines 48-62);

As per claims 41 and 42, the further limitation of permitting access to read/write from the hidden memory area if the password is verified is equivalently taught by Juyna as permitting external device access to the hidden data stored in the data storage device if the passwords are compared and verified (e.g. see column 4, lines 53-65);

As per claim 43; the further limitation of permitting access to write to the hidden memory area if a valid address in the hidden memory area is provided is taught by Juyna to the extent that it is being claimed; for example, Juyna teaches that password address must be decoded first to determine whether it is active/valid address for proceeding to the comparison process in determining as to whether the external device can access to the hidden data stored in the data storage device (e.g. see column 6, lines 48-58);

As per claims 45 and 48, Junya discloses that if the password HC does not match the password MR (bad password), then the output of the comparator 41 is drive low, the UP/DOWN counter

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which also connected to the output of the comparator is in turn will count in accordingly (depended on the user's setting) with the outcome of the comparison results and set/reset the counter accordingly (e.g. see column 3, lines 52-58); it should be noted that when the correct/recovery is written, the UP/DOWN counter is known to be reinstated/reset as being claimed;

As per claims 46 and 47, the further limitations of writing a system administrator password that allows hidden memory area contents or a recovery password to be reset is equivalently taught by Junya as an error check circuit of the data storage 100 detects an error in password address read out from the password table area 15 of the memory 10, the password address is replaced by prescribed data (e.g. FFFF) to indicate its unreliability (e.g. see column 3, lines 34-39);

Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which

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the invention was made.

6. Claims 31, 44 and 49-52, 54-55 and 57-60 rejected under 35 U.S.C. 103(a) as being unpatentable over Junya (USPN: 5,469,564);

As per claim 31, Junya disclose the invention as claimed, detailed above with respect to claims 25-28, Junya however does not particularly teach the hidden banks/blocks include a swap space for copying data between the memory banks/blocks. First of all, Junya discloses in one other embodiment of his invention that rather than the passwords being stored in separate memory blocks/banks of a flash EEPROM, all of the passwords could be stored in the same memory block leaving other banks/blocks for spare (e.g. see column 4, lines 24 et seq.). Therefore, it would having been obvious to one having ordinary skill in the art at the time the current invention was made to use the spare blocks as a working storage space for copy the original data/password in order to work on. In doing so, it would (a) avoid the degradation of the original data, (b) minimize error in which original data can not be modified which results to enhancing of system reliability, therefore being advantageous;

As per claim 44, Junya discloses memory storage unit 10 is dividing into a password area 15 and a data file area 16 for storing active (valid reference) passwords (e.g. see Junya's figure 1, column 2, lines 23-24; also see lines 34 et seq.). Junya however does not particularly teach a swap space for

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copying data between the memory banks/blocks. First of all, Junya discloses in one other embodiment of his invention that rather than the passwords being stored in separate memory blocks/banks of a flash EEPROM, all of the passwords could be stored in the same memory block leaving other banks/blocks for spare (e.g. see column 4, lines 24 et seq.). Therefore, it would have been obvious to one having ordinary skill in the art at the time the current invention was made to use the spare blocks as a working storage space for copy the original data/password in order to work on. In doing so, it would (a) avoid the degradation of the original data, (b) minimize error in which original data can not be modified which results to enhancing of system reliability, therefore being advantageous.

As per claims 49-52 and 54-55; they encompass the same scope of invention as to that of claims 40-48; however, Junya do not particularly disclose a computer-readable medium of instructions to be implemented on a computer as being claimed 49-52 and 54-55.

However, one of ordinary skill in the art would have recognized that computer readable medium (i.e., floppy, cd-rom, etc.) carrying computer-executable instructions for implementing a method is generally well-known in the art, because it would facilitate the transporting and installing of the method on other systems. For example, a copy of the Microsoft Windows operating system can be found on a CD-ROM from which Windows can be

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installed onto other systems, which is a lot easier than running a long cable or hand typing the software onto another system. The examiner takes Official Notice of this teaching. Therefore, it would have been obvious to put Junya's program on a computer readable medium, because it would facilitate the transporting, installing and implementing of Junya's program on other systems.

As per claim 57, Junya teaches the invention as claimed including a system comprising a memory device 100 comprising a main memory array is taught as flash memory array 10 (e.g. see figure 1; column 2, lines 21 et seq.); an internal processor to execute programming code is taught as the R/W control circuit 11 for executing programming code from host computer 200 (e.g. see figure 1); a hidden storage area connected to the main flash array wherein the programming code prevents access to the hidden storage area without a valid password is taught by Junya as the read/write control circuit 11 functions to read passwords from the data file area 16 of the memory 10 in response to address signals generated by the address signal generator 13 based upon the password addresses read from the password table area 15; the comparing circuit 12 functions to compare the passwords read out by the read/write control circuit 11 with the password supplied by the host computer 200; wherein if the comparing circuit 12 detects a match, the data storage device 100 provides an access permission signal to the host computer 200 for access to memory

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10. (e.g. see abstract, column 2, lines 34 et seq.; lines 65 bridging column 3, line 4); a bad password counter coupled to the processor for maintaining a record of one or more invalid password is taught by Junya as UP/DOWN counter which connected to the output of the comparator 41 for keeping track of number of the passwords being matched/NOT_matched (e.g. see column 3, lines 48-62). Junya, however does not particularly discloses a wireless communication transceiver known to allow the system to operate in a wireless environment. First of all, it should be noted that Junya, starting at column 4, lines 35 et seq, clearly discloses that many variations and/or modifications could have been implemented to the invention without changing its scope which known to including the making of Junya's system to operate in the wireless environment as being claimed as Applicant. Accordingly, it would have been obvious to one having ordinary skill in the art at the time the current invention was made to make the system of Junya to operate in the wireless environment by adding the wireless transceiver. In doing so, it would increase the flexibility of Junya's system by allowing it to serve a broader range of applications and their (variants) thereby broadening one's potential market and saving investment capital.

As per claims 58 and 59, Junya discloses main memory array is a flash EEPROM; noting that Junya further discloses the type

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of memory employed is NOT limiting to the present invention (e.g. see column 2, lines 24-26);

As per claim 60; the further limitation of where the hidden storage area of memory array 100 comprises one or more hidden banks is taught by Junya to the extent that it is being claimed, for example, as noted above, the type of memory is a system depended feature, wherein as being illustrated by Junya; any type of memory could be implemented including DRAM, RAM, FLASH, which is known to comprise at least one segment/bank/portion as being claimed (e.g. see column 2, lines 24-26);

7. As to the remark; Applicant's counsel argue that (a) Junya does not disclose or reasonably suggest a bad password counter to maintain a record of invalid passwords (e.g. see page 8 of the amendment).

With respect to (a); first of all, Examiner would like to again direct Applicants to column 3, lines 48 et seq. wherein Examiner wholeheartly believes that the bad password or invalid password counter is clearly taught by Junya as the up/down counter; for example, Junya specifically discloses the digital comparator 41 compares a password HC received from the host computer 200 with a password MR read from the memory 10, and if the password HC matches the password MR, then the output of the comparator 41 is driven high; whereas if the password HC does not match the password MR (bad password) then the output of the

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comparator 41 is driven low. It should be noted that Junya further goes on and teaches *the output of the comparator 41 is applied to the up-counting terminal (UP) of the up/down counter 43*, wherein it's clearly understood that the counter would maintain the log/record of every time the password is not matched or bad password as being claimed and contended by Applicant.

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4182. The fax phone number for the organization where this application or proceeding is assigned is

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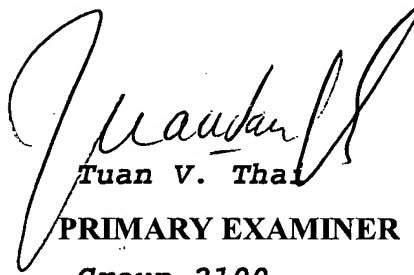
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703-872-9306.

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TVT/May 27, 2005


Tuan V. Thai
PRIMARY EXAMINER
Group 2100